

1) CONSTRUCTION:

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|--------------|---|-----------|-------------------|
| CONDUCTOR: | 26 AWG 7/34 STRANDED TINNED COPPER | NOM. DIA. | .0189" |
| INSULATION: | FOAMED FEP, .014" NOM. WALL THICKNESS | | .047" ± .001" |
| PAIRS: | COLOR CODED SINGLES TWISTED INTO PAIRS | | .094" |
| PAIR SHIELD: | AN ALUMINUM POLYESTER ALUMINUM TAPE SHALL BE APPLIED OVER EACH PAIR | | .099" |
| CABLE: | (4) TWISTED SHIELDED PAIRS TWISTED TOGETHER TO FORM A CABLE CORE | | .209" |
| SHIELD: | AN OVERALL SHIELD OF 36 AWG TINNED COPPER BRAID (75% MINIMUM COVERAGE), SHALL BE APPLIED OVER THE CABLE CORE. | | .232" |
| JACKET: | POLYURETHANE, (COLOR, PER CHART 1), .030" NOM. WALL THICKNESS | | .295" NOM. ±.010" |
| | OVERALL CABLE DIAMETER | | (BY PI TAPE) |

2) PHYSICAL PROPERTIES:

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| TEMPERATURE RATING, MAX. | 60°C |
| TEMPERATURE RATING, MIN. | -20°C |
| WT./M', NOM., NET. | 46.4 LBS. |

CHART 1:

| QUABBIN P/N | JACKET COLOR |
|-------------|-----------------|
| 2600 | BLACK |
| 2601 | BROWN |
| 2602 | RED |
| 2603 | ORANGE |
| 2604 | YELLOW |
| 2605 | GREEN |
| 2606 | BLUE |
| 2607 | VIOLET |
| 2608 | GRAY |
| 2609 | WHITE |
| 2610 | STARLIGHT BEIGE |

3) ELECTRICAL CHARACTERISTICS:
SEE PAGE 2

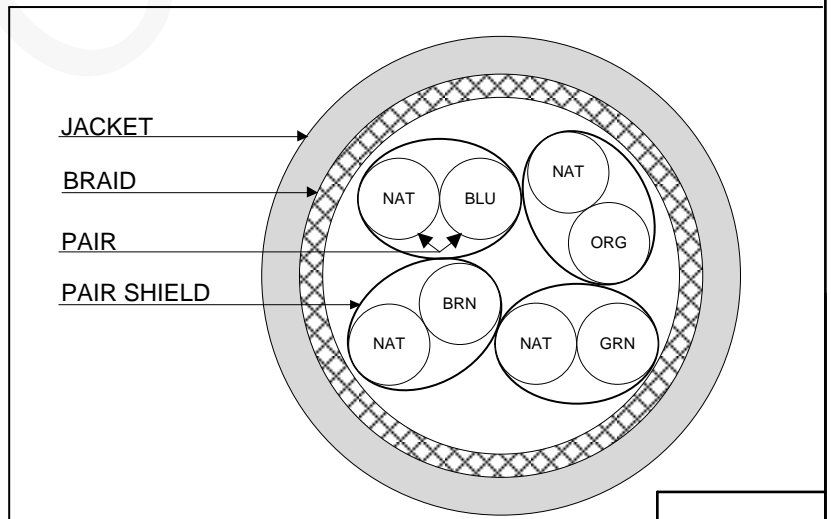
4) AGENCY APPROVALS:

5) APPLICATION:
RoHS COMPLIANT MATERIALS.

6) PRINT: NONE

7) COLOR CODE:
1. NATURAL X ORANGE
2. NATURAL X GREEN
3. NATURAL X BROWN
4. NATURAL X BLUE

8) PACKAGING:
TO BE PACKAGED AS PER QWC'S
STANDARD PACKAGING



| | | |
|--|-------------------------|--------|
| Created 01/27/22 | DRAWN: SGH 02/02/22 | |
| REV. 02 | CHECKED: JFR 2/15/22 | |
| TITLE QUABBIN DATAMAX CAT 8 SHIELDED PAIR 26 AWG | | |
| DRAWING# | QWC0154 | 1 of 2 |

CUSTOMER APPROVAL:


DATE:

3) ELECTRICAL CHARACTERISTICS:

| | |
|-------------------------------|----------------------|
| CAPACITANCE, MUTUAL, NOM. | 13.5 PF/FT. AT 1 MHz |
| DIELECTRIC WITHSTANDING, MIN. | 1500V RMS |
| VOLTAGE RATING, MAX. | 300V |
| D.C. RESISTANCE, NOM. | 42.6 Ω/1000' |
| IMPEDANCE, NOM | 100 Ω 1-2000 MHz |

NOTE: TESTING FOR THE FOLLOWING IS CONDUCTED OFF THE REEL, USING 30M LENGTHS @ 20°C.

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| RETURN LOSS | $1 \leq f < 10 \text{ MHz}$ 20 + 5 LOG (f) dB MIN $10 \leq f < 40 \text{ MHz}$ 25 dB MIN $40 \leq f \leq 2000 \text{ MHz}$ 25 - 7 LOG(f/40) dB MIN |
| PS NEXT | $1 \leq f \leq 2000 \text{ MHz}$ 42.3 - 15 LOG(f/100) dB MIN |
| NEXT | $1 \leq f \leq 2000 \text{ MHz}$ 45.3 - 15 LOG(f/100) dB MIN |
| PSACRF | $1 \leq f \leq 2000 \text{ MHz}$ 36.0 - 20 LOG(f/100) dB MIN |
| ACRF | $1 \leq f \leq 2000 \text{ MHz}$ 39.0 - 20 LOG(f/100) dB MIN |
| INSERTION LOSS | $1 \leq f \leq 2000 \text{ MHz}$ 1.50 [0.540 √f + 0.0015(f) + 0.075/√f] dB MAX |
| DELAY | $1 \leq f \leq 2000 \text{ MHz}$ 160 + 11/√f ns MAX |
| DELAY SKEW | $1 \leq f \leq 2000 \text{ MHz}$ <13.5ns MAX |
| TCL | $1 \leq f \leq 2000 \text{ MHz}$ 20 – 15 LOG(f/100) dB MIN, 40 dB MAX |
| ELTCTL | $1 \leq f < 56 \text{ MHz}$ 40 – 20 LOG(f) dB MIN $56 \leq f \leq 2000 \text{ MHz}$ 5 dB MIN |
| PS ANEXT LOSS (6 AROUND 1) | $1 \leq f \leq 2000 \text{ MHz}$ 87.5 - 15 LOG (f/100) dB MIN, 80 dB MAX |
| PSAACRF | $1 \leq f \leq 2000 \text{ MHz}$ 62.2 - 20 LOG(f/100) dB MIN, 80 dB MAX |
| VELOCITY OF PROPAGATION | 70% |

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| DRAWING# | | QW/C0154 |
| | | 2 of 2 |

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